

BATKA, V., inž., kandidat technických ved.

Transmission capacity and transmission loss of oil cables.  
El tech obzor 51 no.1:45-46 Ja '62.

1. Ustav pro elektrotechniku, Ceskoslovenska akademie ved.

BATKA, Vilem, kandidat technickych ved

1. Ustav pro elektrotechniku, Ceskoslovenska akademie  
ved. El tech obzor 51 no.2:57-58. F '62.

BATKA, Vilem, inz., kandidat technickych ved

The 45th anniversary of the October Socialist Revolution. E1 tech  
obzor 51 no.11:561 N '62.

BATKA, Vilem, prof., inz., kandidat technickych ved

After the 12th Congress of the Communist Party of Czechoslovakia.  
El tech obzor 52 no.2:57-58 F '63.

BAKA, Vilen, prof., inz., kandidat technickych ved

Experimental examination of the electric breakdown of thin mica foils. El tech obzor 52 no.5:230-232 My '63.

BATKA, Vilem, prof., inz., kandidat technických ved

"Collection of problems from theoretical electrical engineering"  
by V.I. Konstantinov, N.N. Mansurov, A.F. Simonov, A.A. Fedorov-  
Korolev. Reviewed by Vilem Batka. El tech obzor 52 no.7:390  
Jl '63.

BATKA, Vilem, prof., inz., kandidat technickych ved; VURCFELD, Jan, inz.

Service comparator of insulation conditions of electric  
equipment. El tech obsor 52 no.11:602-608 N'63.

BATKA, V., prof.

Tenth anniversary meeting of electrical engineers in Weimar,  
German Democratic Republic. El tech obzor 52 no.11:Supple-  
ment: Zpravy 52 no.11: 241-242 N°63.

BATKAYEV, R.

Differentiation of workers' wages depending upon the working conditions. Sets. trud 8 no.10:65-70 0 '63. (MIRA 16:12)

BATKAYEV, R.; KUNEL'SKIY, L.

New wage terms in operation. Sots. trud no.2:149-154 P '58.

(Wages)

(MIRA 11:1)

MARKOV, V.;BATKAYEV, R.

Analyzing correlations in levels of average wages. Sots. trud. 4 no.10:  
136-141 0 '59 (MIRA 13:3)  
(Wages)

BATKAYEV, R.

"Wages and technological progress" by G.Kh.Gendler. Reviewed by  
R.Batkaev. Sots.trud 7 no.7:153-155 JI '62. (MIRA 15:8)  
(Technological innovations)  
(Wage payment systems) (Gendler, G.Kh.)

KARPOV, M.S.; VERNIGOR, V.A.; BAT'KAYEV, R.Ya.; POPENKO, A.K.; IL'INA, K.A.;  
IMRANOV, N.S.; PERSHINA, E.P.

Microbiological processes in surface silage. Trudy Inst.mikrobiol.  
i virus.AN Kazkah.SSR 6:133-140 '62. (MIRA 15:8)  
(ENSILAGE--MICROBIOLOGY)

BATKAYEV, R.

Changing the wage schedule in connection with technological  
improvements. Sots. trud 6 no.6:35-42 Je '61.

(MIRA 16:8)

BATKAYEV, Marik Abdulovich; MARKOV, Vladimir Ivanovich; KATASHOVA,  
R.T., red.

[Differentiation of wages in industry in the U.S.S.R.]  
Differentsiatsiia zarabotnoi platy v promyshlennosti  
SSSR. Moskva, Ekonomika, 1964. 238 p. (MIRA 18:1)

KOLETY, T.; BAYNE, J.

The kinetics of the reactions catalyzed by d-glyceraldehyde-3-phosphate dehydrogenase. Part 2. Acta physiol. acad. sci. Hung. 28 no.3:195-207 ' 65.

1. Institute of Biochemistry, Hungarian Academy of Sciences, Budapest. Submitted December 2, 1964.

L 31088-66

ACC NR: AT6022815

SOURCE CODE: HU/2505/65/028/003/0195/0207

AUTHOR: Koletti, Tamas; Batke, Jozsef--Batke, Y.

ORG: Institute of Biochemistry, MTA, Budapest (Magyar Tudományos Akademia, Biokemiai Intezet)

TITLE: Kinetics of the reactions catalyzed by D-glyceraldehyde-3-phosphate dehydrogenase II. Kinetics of D-glyceraldehyde-3-phosphate oxidation

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 28, no. 3, 1965 195-207

TOPIC TAGS: chemical kinetics, catalysis, oxidation, enzyme, biochemistry

ABSTRACT: The oxidation of D-glyceraldehyde-3-phosphate, catalyzed by D-glyceraldehyde-3-phosphate dehydrogenase in the presence of phosphate, may, in theory, take place according to the general mechanism, or according to various compulsory (ordered) mechanisms in cases where it is assumed that oxidation precedes phosphorylation. The kinetic equations of such mechanisms and the method of the measurement of kinetic constants have been worked out theoretically. On the basis of the constants measured it has been established that under the conditions used for the present study: 1) there is a mutual influence between substrates in their binding to the enzyme and 2) the kinetics of the reaction can be described satisfactorily by a compulsory (ordered) mechanism. The authors are indebted to Mrs. M. Nuridsany for valuable technical assistance and to Mrs. E. Cseke and Dr. M. Sajgo for their participation in the elaboration and discussion of the theoretical part. Orig. art. has: 3 figures and 4 tables. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06, 07 / SUBM DATE: 02Dec64 / ORIG REF: 006 / OTH REF: 006

Card 1/1 CC

BATKHON, I.S., inzhener.

Homogram for calculating the forces at work in lifting  
supports with a luffing boom. Elek.sta. 27 no.7:47-49  
J1 '56.

(MLRA 9:10)

(Cranes, derricks, etc.)

BATKIN, I. S. (Eng.)

"Calculation of Forces Required for Lifting Supporting Structures by the Nomographic Method," Operating Experience of the Mosenergo High-Voltage Networks, Collection of Articles, Moscow, Gosenergoizdat, 1957, 79 p.

Abst.: The author explains the theory of this method and its practical application.

BATKHON, I.S., inzhener.

Selecting protectors for d.c. circuits feeding cut-out wires.

Elek.sta. 28 no.9:50-53 S '57.

(MIRA 10:11)

(Electric cutouts)

*BATKHON, I.S.*  
BONDARENKO, A.K., inzh.; RYTSLIN, A.M., inzh.; KHAYTUN, E.I., inzh.; BATKHON,  
I.S., inzh.; KUZNETSOV, A.N., inzh.

Bus-tie breakers of step-down substations. Elek. sta. 29 no.2:90-92  
7 '58. (MIRA 11:3)

(Electric circuit breakers)

VOSKRESENSKIY, V.F., insh.; KOROKOVA, V.P., insh.; BATKON, I.S.,  
insh.; PETROV, V.M., insh.

Review of P.D. Dorokhin's article "Are line separators  
necessary?" Elek.sta. 31 no.5:91-93 My '60.

(MIRA 13:8)

(Electric power distribution)

(Electric switchgear)

BATKHON, I.S., inzh.

Breaking of the tie bolt in collars of RLN-type disconnectors for  
35 and 110 kv. Elek. sta. 31 no.12:80 D '60. (MIRA 14:5)  
(Electric cutouts)

BATKHON, I.S., inzh.

Thermite welding of the wires of distribution devices. Elek. sta.  
32 no. 5:83-84 My '61. (MIRA 14:5)  
(Electric lines—Welding)

DUNETS, G.I., inzh.; BATKHON, I.S., inzh.

Concerning V.G. Vasil'ev's article "Decrease in the number of  
elements in stationary lead-acid storage batteries." Elek. sta.  
32 no.7:86 J1 '61. (MIRA 14:10)  
(Storage batteries)

BATKHON, I.S., inzh.

Faults of the differential valves of VVN-110 cutouts. Elek.sta.  
32 no.8:84-85 Ag '61. (MIRA 14:10)  
(Electric cutouts)

BATKON, I.S., inst.

Use of apparatus clamps in open d distribution systems.  
Ele. sta. 32 no. 9:85-87 S '61. (MIRA 14:10)  
(Electric power distribution)

BATKHON, I.S., inzh.

Concerning V.F.Voskresenskii's article "Nature of the servicing of  
electrical equipment in the laboratories of electric power systems,"  
Elek. sta. 32 no.2:91 F '61. (MIRA 16:7)

(Electric laboratories)

(Electric power distribution—Equipment and supplies)

BATKHON, I.S., inzh.

Step-down substations for 110 kv. with outouts at the highest  
voltage end. Elek.sta. 33 no.2:87-92 F '62. (MIRA 15:3)  
(Electric substations)

BATKHON, Ikar Sergeevich; VASIL'YEV, A.A., red.; FRIDKIN, L.M.,  
tekhn. red.

[VM-35 and MKP-35-type 35 kv. oil-filled switches] Mas-  
lianye vykliuchateli 35 kv tipov VM-35 i MKP-35. Moskva,  
Gosenergoizdat, 1963. 56 p. (Biblioteka elektromontera, no.84)  
(MIRA 16:6)

(Electric switchgear)

BATKI, L.

On the quality, expediency and economy of image amplifying technics.  
Acta chir. acad. sci. Hung. 3 no. 4:xxi-xxvii '62.  
(RADIOGRAPHY)

BATKI, L.

Quality, expedience and economy in the technique of electrooptic transformers. Periodica polytechn electr 6 no.4:XXIII-XXIX '62.

ACC NR: AP6031300

SOURCE CODE: UR/0366/66/002/009/1589/1593

AUTHOR: Batkibekova, M.; Rubtsov, I. A.; Zotchik, N. V.

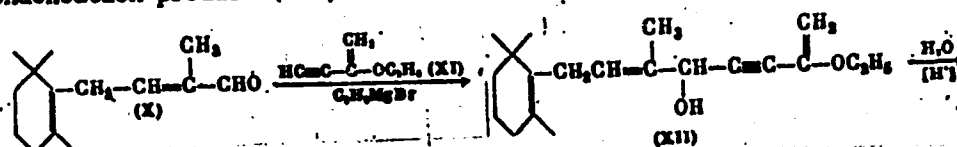
ORG: Moscow Technological Institute of the Food Industry (Moskovskiy tekhnologicheskoy institut pishchevoy promyshlennosti)

TITLE: Synthesis of 1-(2',2',6'-trimethyl-1'-cyclohexen-1'-yl)-3-methyl-1,3-octadien-5-yn-7-one and  $\gamma$ -alkoxyvinylacetylene

SOURCE: Zhurnal organicheskoy khimii, v. 2, no. 9, 1966, 1589-1593

TOPIC TAGS: acetylene compound, ketone

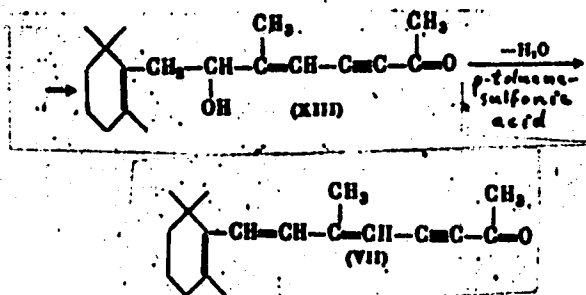
ABSTRACT: The compound 1-(2',2',6'-trimethyl-cyclohexen-1'-yl)-3-methyl-1,3-octadien-5-yn-7-one (VII), which forms the basis of the synthesis of a vitamin-A acid free of retroionolylene isomers, was synthesized by condensing  $\gamma$ -(2,2,6-trimethyl-1-cyclohexen-1-yl)- $\alpha$ -methylcrotonaldehyde (X) with  $\gamma$ -ethoxyvinylacetylene (XI) under conditions of a Grignard reaction followed by isomerisation, saponification, and dehydration of the condensation product (XII):



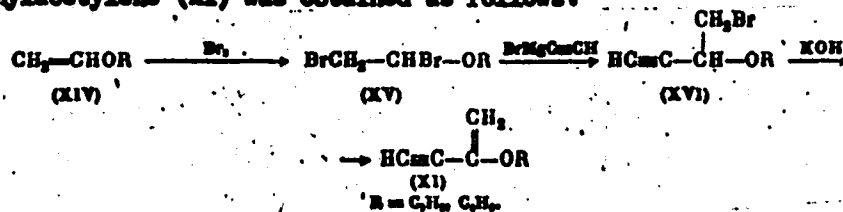
Cerd 1/2

UDC: 547.592.2+547.374

ACC NR: AP6031300



$\gamma$ -Alkoxyvinylacetylene (XI) was obtained as follows:



SUB CODE: 07/ SUBM DATE: 04Oct65/ ORIG REF: 002/ OTH REF: 006

Card 2/2

RATKIEWICZ, W.

Computation of a triangulation net composed of "computed triangles"  
p. 169.

GEODEZJA I KARTOGRAFIA, Vol. 4, no.3, 1955

POLAND

SOURCE: EAST EUROPEAN ACCESSIONS LC Vol. 5, August 1956.  
no. 7,

BATKIN, A.A., (Leningrad, S-36, 4-ya Sovetskaya ul., 8, kv.7)

Classification and principles of the treatment of large joint lesions  
in deep burns of the extremities. Vest. khir. no.7:86-89 J1 '64.

(MIRA 18:4)

1. Iz khirurgicheskoy kliniki (nachal'nik - prof. T.Ya. Ar'yev)  
Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.

BATKIN, G. L.

N/D  
732.003  
.05

Usovershenstvovaniye Proizvodstva Trub (Opyt Raboty Truboprokatnogo Zavoda Im. Lenina) (Improvement of the Production of Piping, By) A. P. Chernarev, G. L. Batkin, Z. O. Knyazhinskiy (I Dr.) Moskva, Metallurgizdat, 1954.

159 P. Illus., Diagr., Tables.

USSR / Pharmacology, Toxicology. Analeptics.

V

Abs Jour: Ref Zhur-Biol., No 18, 1958, 85131.

Author : Surovtseva, S. F., Klimarskaya, I. V., Batkin, I. Z.

Inst : Not given.

Title : The Influence of Chinese Lemon on Conditioned and Unconditioned Vascular Reactions in Patients with Peptic Ulcer of the Stomach and Duodenum.

Orig Pub: In the collection, Materialy k izuch. zhen'shenya i limonnika, No 3, Leningrad, 1958, 187-197.

Abstract: In 9 patients with peptic ulcer and in four healthy subjects studies were made, with the aid of the plethysmograph, of the influence on vascular reactions of doses of 1.5-2 gm of the ground seeds of lemon (L). Plethysmograms were taken prior to and after (1.5-3 hours) the doses of L. Cold was used as the unconditioned stimulus, and white and

Card 1/2

26

Y  
KELFONOV, S. and BATKIN, R.

Zhelesnodorozhnyi transport vo vtorom kvartale 1932 g. /Railroad transport in the second quarter of 1932/. (Sots. transport, 1932, no. 4, p. 11-19).

DLO: HF7.86

SO: Soviet Transportation and Communications. A Bibliography. Library of Congress, Reference Department, Washington, 1952, Unclassified.

BATKIN, B. I. and LERNER, M. S.

Zheleznodorozhnyi transport v 1934 godu. [The railroads in 1934]. (Sots. transport, 1934, no. 2, p. 37-52).

DLC: HF7.86

SO: Soviet Transportation and Communications. A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

SOV/137-58-9-19573

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 206 (USSR)

AUTHOR: Batkin, S.Z.

TITLE: Silver Electroplating of Machine Parts Using Reverse Current  
(Gal'vanicheskoye serebreniye detaley s primeneniym reversirovannogo toka)

PERIODICAL: Sb. tr. Voronezhsk. otd. Vses. khim. o-va im. D.I. Mendeleeva, 1957, Nr 1, pp 121-125

ABSTRACT: The optimum conditions are: Composition of the electrolyte (in g/l ), Ag 30, KCN<sub>free</sub>30, cathode cd = 1.75 a/dm<sup>2</sup>, temperature 15-25°C, duration of the passing of direct current 10 sec, duration of the passing of reverse current 1 sec. Reversing the current increases the rate of deposition of Ag by 2-3 times and improves the quality of the coatings.

M.M.

1. Industrial equipment--Plating 2. Silver--Electrodeposition

Card 1/1

BATKIN, Ya.I., podpolkovnik meditsinskoy sluzhby

Subcutaneous oxygen injection in some skin diseases. Voen.-med.  
zhur. no.7:85 J1 '56. (MLRA 9:11)

(SKIN--DISEASES) (OXYGEN--THERAPEUTIC USE)

BATKIS, Grigoriy Abramovich

Teoriya i organizatsiya sovetskogo zdravookhraneniya  
(by) G.A. Batkis (1) L.G. Lekarev. Moskva, Medgiz,  
1961.

349 p. illus., charts, diagrs, graphs, maps, ports.,  
tables.

Bibliographical footnotes.

*Conf.*  
BATKIS, Grigoriy Abramovich, prof. (1895-1960); MERKOV, A.M., prof., red.;  
PRIVEZENTSEVA, A.G., red.

[Problems in health and vital statistics; selected works]  
Voprosy sanitarnoi i demograficheskoi statistiki; izbran-  
nye proizvedeniia. Moskva, "Statistika," 1964. 289 p.  
(MIRA 17:6)

1. Chlen-korrespondent AMN SSSR (for Batkis).

BATKIS, Grigoriy Abramovich [Batkis, H.A.], prof.; POZNANSKIY, S.S.  
[Poznans'kyi, S.S.], red.; BOYKO, Ye.P. [Boiko, IE.P.],  
red.

[First steps in the organization of Soviet public health in  
the Ukraine, 1918-1922] Pershi kroky budivnytstva radians'koi  
okhorony zdorov'ia na Ukraini (1918-1922 rr.) Kyiv, Derzh-  
medvydav URSR, 1964. 45 p. (MIRA 18:1)

BATKO, A.

Termites. Vokrug sveta no.10:33 0 '54. (MIRA 7:10)  
(Termites)

BATKO, Andrzej; KMITOWA, Krystyna

Morphological variability of *Empusa muscae* Cohn as a contribution to studies on the structure of the species in insecticidal fungi. Zesz probl post nauk roln no.35:249-254 '63.

1. Laboratory of Applied Entomology of the Institute of Ecology of the Polish Academy of Sciences, Warsaw.

SURDACKI, Zygmunt; BATKO, Antoni

Slaughter value of fattened pigs from the Konska Wola herd  
of Pulawska breed slaughtered when their weight was from  
50 to 90 kg. Roczn. nauk roln. zootechn. 84 no.1:97-123 '64.

BATKO, Bronisław

On neurological disorders during *Lamblia intestinalis* infection.  
Polski tygod. lek. 14 no.23:1055-1057 8 June 59.

1. (Z Oddziału Chorob Wewnętrznych Szpitala Wojskowego we Wrocławiu;  
ordynator: dr med. Henryk Baraban)  
(GIARDIASIS, compl.) (NERVOUS SYSTEM, dis.)

BATKO, Bronisław

On febrile forms of lambiasis. Polski tygod.lek. 15 no.23:868-870  
6 Je '60.

1. Z Oddziału Chorob Wewnętrznych Szpitala Wojskowego we Wrocławiu;  
ordynator: dr med. Henryk Baraban i Oddziału Chorob Wewnętrznych  
Szpitala Wojskowego w Gliwicach; ordynator; lek. med Bronisław  
Batko.

(GIARDIASIS diag)

BATKO, Bronislaw; NAWRAT, Jan

A case of Zollinger-Ellison syndrome. Polski tygod. lek. 16 no.30:  
1157-1159 J1 '61.

1. Z Oddzialu Chorob Wewnetrznych Szpitala Wojskowego w Gliwicach;  
ordynator: lek. med. Bronislaw Batko.

(PEPTIC ULCER compl)  
(ISLANDS OF LANGERHANS neopl)  
(CYSTADENOMA compl)

BATKO, Bronislaw

Clinical observations on 160 cases of lamblasis. Wiadomosci parazyt.  
8 no.4:437-445 '62.

1. Oddzial Chorob Wewnetrznych Szpitala Wojskowego, Gliwice.  
(GIARDIASIS statist)

POLAND

BATKO, Bronislaw, Division of Internal Diseases (Oddzial Chorob Wewnetrznych), Military Hospital (Szpital Wojskowy) in Wroclaw (Director: Docent, Dr. med. Henryk BALABAN) and the Division of Internal Diseases of the Military Hospital in Gliwice (Director: Dr. med. Bronislaw BATKO)

"Goodpasture Syndrome. Report of Three (3) Cases."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 36, 2 Sep 63, pp 1353-1355

Abstract: [Author's English summary] Author reports three cases of the syndrome in young people. Hemoptoe and anemia were early signs of the disease. X rays were insufficient for diagnosis, but did reveal the cause of hemoptoe. Death in all cases was due to chronic nephritis and renal failure. In one case clinical remission was achieved in early stage of the disease with corticoids. Vaccinations are suggested as the contributing factor in two of the cases. There are two British references.

1/1

BATKO, Bronisław; GBUREK, Zbigniew

Diagnostic difficulties in a case of acute diffuse necrosis of the liver without jaundice. Wlad. lek. 18 no.5:429-434  
1 Mr '65

1. Z Oddziału Chorob Wewnętrznych Szpitala Wojskowego w Gliwicach (Ordynator: dr. med. B. Batko).

BATKO, Bronislaw; GBUREK, Zbigniew

An atypical case of psoriatic arthropathy. Wiad. lek. 18 no.17:  
1417-1421 1 S '65.

1. Z Oddzialu Chorob Wewnetrznych Szpitala Wojskowego w Gliwicach  
(Ordynator: dr. med. B. Batko).

*SATKO, BRONISLAW*

JOSZPA, Olga; BATKO, Bronislaw

Two cases of severe thallium poisoning treated with thioacetamide.  
Polski tygod. lek. 12 no.5:179-181 28 Jan 57.

1. (Z III Kliniki Chorob Wewnętrznych A.M. we Wrocławiu;  
kierownik: prof. dr. B. Sęceklik i z Oddziału Chorob  
Wewnętrznych Szpitala Wojskowego; ordynator: dr. med.  
H. Baraban). Adres: Wrocław, ul. Pasteura 4. III Klin.  
Chor. Wewn.

(THALLIUM, pois.

ther., thioacetamide (Pol))

(ACETIC ACID, related cpds

thioacetamide, ther. of thallium pois. (Pol))

BARABAN, Henryk; ~~BATKO~~, Bronislaw

Transient pulmonary infiltrations in the course of infection with *Strongyloides stercoralis*. Polski tygod. lek. 13 no.41:1592-1594 13 Oct 58.

1. (Z Oddzialu Wewnetrznego Szpitala Wojakowego i Oddzialu Wewnetrznego Szpitala im. Czerwinskowskiego we Wroclawiu; ordynator: dr med. Henryk Baraban). Adres: Wroclaw, ul. Przodownikow Pracy 19/4.

(STRONGYLOIDIASIS, compl.

pulm. infiltrations, transient, in *Strongyloides stercoralis* infect. (Pol))

(LUNGS, in various dis.

*Strongyloides stercoralis* infect. with transient pulm. infiltrations (Pol))

BATKO, Bronisław (Wrocław, ul. Kosciuszki 59/6)

Clinical course, diagnosis & therapy in cases of thallium poisoning.  
Polski tygod. lek. 14 no.12:546-548 23 Mar 59.

1. Z Oddziału Wewnętrznego Szpitala Sojskiego we Wrocławiu, ordynator:  
dr med. Henryk Baraban.

(THALLIUM, pois.  
case reports (Pol))

BATKOV, A., inzh.

Laying of pipes without canals. Nauka i tekhnol. no.9:1-2,27  
S '57.

BATKOV, An., inzh.; TROIANOV, V.

Artificial increase of rainfall. Priroda Bulg 12 no. 1:  
14-21 Ja-F '63.

BATKOV, Anastas, inzh.

For a lesser use of wooden supports in underground mining works. Nauka i tekhnol. no.12:1-2 D '57.

BATKOV, Anastas, inzh.

The high Assuan Dam. Elektroenergiia 15 no.6:27-29 Je '64.

BATKOV, Anastas, inzh.; MILOVANOV, Kiril, inzh.

Possibilities of using solar radiation energy for electric power  
production. Priroda Bulg 13 no.6:46-51 N-D '64.

BATKOV, A.

Hydraulic machinery in construction.

p. 8 (STROITELSTVO) Vol. 4, no. 6, 1957,  
Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,  
March 1958

BATKOV, A.

Laying pipes without trenching with hydraulic machinery.

p. 7 (STROITELSTVO) Vol. 4, no. 8, 1957,  
Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,  
March 1958

BATKOV, A.; BILAZOV, I.; DIMOV, D.; MILOVANOV, K.

Possibilities and economic aspects in the construction  
of small hydroelectric power plants at certain irrigation  
canals and smaller dams. Izv Inst energ BAN 5:263-290 '63.

BATKOV, Anastas, Insh.

Silicosis. Nauka i tekhnolozhiya no.5:23-24 My '57.

BATKOV, Anastas, inzh.

On the problem of annual expenditure of the hydroelectric power stations. Elektroenergiia 12 no.8:8-13 '61.

1. Ikonomichen institut pri Bulgarskata akademiia na naute.

(Hydroelectric power stations)

BATKOV, Anastas, inzh.

The problem of annual expenditure of the hydroelectric power stations.  
Elektroenergiia 12 no.9:3-7 '61.

1. Ikonomichen institut pri Bulgarskata akademiia na naukite.

(Hydroelectric power stations)

BATKOV, Anastas, inz.

The Krasnoyarsk Hydroelectric Power Plant. Elektroenergiia 14 no.4:  
22-25 Ap '61.

BATKOV, Atanas

Water lightens man's work. Nauka i tekhnolozhiya no.11:18-19  
N '57.

KAISHEV, Petur A., k. t. n. inzh.; BATKOV, Anastas T., inzh.

Importance of water power for the electrification in Bulgaria.  
Khidrotekh i malior 8 no.1:19-21 '63.

BATKOV, Atanas Iv., inzh.

A method of designing the surface leveling of irrigated areas. Khidrotekh i melior 7 no.6:166-168 '62.

BATKOV, Anastas, inzh.

Problem of determining the prospective load of an electric  
power system. Elektroenergiia 15 no.5: 7-11 My '64

[illegible]

BAT'NO', A.I.

"Perfecting the finishing work."  
Polst. prom. no. 5, 1952.

1952, A.S.

"Unit for silver dressing."  
Tekst. prom. 12, no. 7, 1952

BAT'KOV, A.I.

We are increasing the productivity of printing machines. Tekst.  
prom.15 no.8:44 Ag'55. (MLRA 8:11)

1. Glavnyy inshener fabriki Bol'shaya Ivanovskaya manufaktura  
(Textile printing)

BAT'KOV, A.I.

ZVEZDINA, L.P.; BAT'KOV, A.I.

BIM factory practices. Tekst.prom. 16 no.11:44-46 N '56.

(MIRA 9:12)

1. Direktor fabriki Bol'shaya Ivanovskaya manufaktura (for Zvezdina)

2. Glavnyy inzhener fabriki Bol'shaya Ivanovskaya manufaktura (for Bat'kov).

(Textile industry)

BAT'KOV, A.I.; ZALMANZON, Ya. S., nauchnyy sotrudnik; MOSKVICHEV, N.T.,  
nauchnyy sotrudnik

Scouring fabric in steam under pressure. Tekst. prom. 18 no. 7:45-  
47 J1 '58. (MIRA 11:7)

1. Glavnyy inzhener fabriki Bol'shaya Ivanovskaya manufaktura (for  
Bat'kov). 2. Ivanovskiy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti (for Zalmanzon, Moskvichev).  
(Cotton finishing)

STEPANOV, A.S.; BAT'KOV, A.I.; BOLTAREVA, Ye.Z.

Using "khelizarin"-type pigments for printing. Tekst. prom. 18  
no.11: 37-39 N '58. (MIRA 11:12)  
(Textile printing)

BAT'KOV, A.I.

Practices in improving the finish and dressing of fabric selections.  
Tekst.prom. 20 no.7:65-67 JI '60. (MIRA 13:7)

1. Glavnyy inzhener fabriki Bol'shaya Ivanovskaya manufaktura.  
(Textile finishing)

BAT'KOV, A.I.; MIGACHEVA, I.B., inzh.-khimik

Resist bleaching and coloring of staple fabrics. Tekst.prom.  
20 no.8:14-15 Ag '60. (MIRA 13:9)

1. Glavnyy inzhener fabriki Bol'shaya Ivanovskaya manufaktura.  
(Textile fabrics)  
(Dyes and dyeing)  
(Bleaching agents)

BATKOV, Anastas, inzh.

Energy effectiveness of hydroelectric-power plants. Elektroenergiia  
12 no.11/12:3-8 N-D '61.

BATKOV, A. M. and SOLODOVNIKOV, V. V.

"The Theory of Self-Adjusting Systems," a paper read at the Convention on  
Control Technique, Heidelberg, 24-28 Sep 56

Inst. Automatics and Telemechanics, Moscow.

SOV/124-58-7-7391 D

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 11 (USSR)

AUTHOR: Batkov, A.M.

TITLE: Electronic Analog Devices Used to Solve One Class of Nonstationary Problems in the Statistical Dynamics of Automatic Control Systems (Resheniye odnogo klassa nestatsionarnykh zadach statisticheskoy dinamiki sistem avtomaticheskogo upravleniya s primeneniye elektronnykh modeliruyushchikh ustroystv)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences presented to the Mosk. inzh.-fiz. in-t (Moscow Institute of Engineering Physics), Moscow, 1957

ASSOCIATION: Mosk. inzh.-fiz. in-t (Moscow Institute of Engineering Physics), Moscow

1. Mathematical computers--Performance 2. Control systems--Analysis

Card 1/1

**AUTHOR** BATKOV A.M., SOLODOVNIKOV V.V. PA - 3224  
**TITLE** The Method of Determining Optimum Characteristics of a Certain Class of Self-Adaptive Control Systems.  
 (Metod opredeleniya optimal'nykh kharakteristik odnogo klassa samonastroyayushchikhsya sistem.- Russian)  
**PERIODICAL:** Avtomatika i Telemekhanika 1957, Vol 18, Nr 5, pp 377-391 (USSR)  
**ABSTRACT** Received: 6/1957 Reviewed: 7/1957  
 The paper under review presents a method for the determination of the impulse transition function of a system with variable parameters. The parameters vary in accordance with the current values of the intelligence signal and the correlation function of the perturbation in such a way that in each moment the sum of the squares of the dynamic and mean square errors has a minimum. For this purpose, an integral equation which determines the conditions for this minimum is derived and solved. As criterion for an optimal performance of dynamic systems of the class investigated it is possible, from the point of view dynamic accuracy, to select

$$E^2 = \int_{m_q}^2 (t) + \lambda^2(t) \int_d^2 (t) = \min \text{ in any arbitrary moment.}$$

CARD 1/2

91

BATKOV, A.M.

20-2-19/60

AUTHORS: Solodovnikov, V. V. , Batkov, A. M.

TITLE: On the Optimal Characteristics of a Class of Self-Tuning Dynamic Systems With Variable Parameters (Ob optimal'nykh kharakteristikakh odnogo klassa samonastroyayushchikhsya dinamicheskikh sistem s peremennymi parametrami)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2, pp.304-307 (USSR)

ABSTRACT: Let the dynamic system here under consideration be under the influence of an obstacle  $n(t)$ , and in a certain moment let on its arrival there fall the intelligence signal  $g(t)$ . Let this intelligence signal be considered here as a certain signal of time. The obstacle  $n(t)$  is an accidental function with the mean value zero and with the known correlation function  $R(t, \theta)$ . The paper under review provides a method for the determination of the impulse-like transition function of the system  $k(t, \tau)$  which guarantees the minimum of the sum of the squares of the dynamic ( $\epsilon_d(t)$ ) or nonaccidental and of the mean quadratic error  $\epsilon_{mq}(t)$ . This means that the expression

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20-2-19/60

On the Optimal Characteristics of a Class of Self-Tuning Dynamic Systems  
With Variable Parameters

behavior of the system not only at processes that have become stationary but also at transition processes. The optimal impulse transition function depends explicitly on the momentaneous values of the intelligence signal and on the correlation function of the obstacle. There are 3 references, 1 of which is Soviet.

ASSOCIATION: Institute for Automatics and Telemechanics AS USSR  
(Institut avtomatiki i telemekhaniki Akademii nauk SSSR)

PRESENTED: July 3, 1956, by N. N. Bogolyubov, Academician

SUBMITTED: July 2, 1956

AVAILABLE: Library of Congress

Card 3/3

16.9500

67494  
SOV/112-59-20-42465

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 20, p 97 (USSR)

AUTHOR: Batkov, A.M.

TITLE: Analysis and Synthesis of Linear Systems of Automatic Control Using  
Simulators <sup>a</sup>

PERIODICAL: V sb. : Avtomat, upravleniye i vychisl. tekhn. Moscow, Mashgiz, 1958,  
pp 438-463

ABSTRACT: Linear systems with variable parameters, acted upon by non-stationary random perturbations, are investigated on the basis of correlation theory. The case of an input random process in the form of "white" noise is analyzed and then generalization is made to other classes of stationary and non-stationary random processes. The results obtained permit one to develop rather simple methods of experimentally determining the correlation functions of processes on simulators, and consequently methods of practical analysis of the accuracy of linear systems of automatic control under random effects. An optimum problem of synthesis of linear systems with variable parameters at stationary random perturbations, as well as the problems of determining the struc-

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BATKOV, A.M.

AUTHOR: Batkov, A. M. (Moscow) 103-1-4/10

TITLE: Concerning the Problem of the Synthesis of Linear Dynamic Systems with Variable Parameters (K voprosu o sinteze lineynykh dinamicheskikh sistem s peremennymi parametrami)

PERIODICAL: Avtomatika i Telemekhanika, 1958, Vol. 19, Nr 1, pp. 49-54 (USSR)

ABSTRACT: If a system is described by linear differential equations with variable coefficients, then its transmission function depends not only on the frequency, but also on time (reference 1) and in the majority of cases it is difficult to determine the structural scheme of the system according to this function. In connection with this circumstance it is proposed here, to determine the structure of a system with variable parameters by starting from one particular differential equation, which characterises the system. Here the problem of the determination of this differential equation is examined in the case, where the pulse-transmission-function of the system is given (as it is the case for example in problems of the synthesis of optimum band passes). A system of  $n$  differential equations of first order is obtained. It is

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Concerning the Problem of the Synthesis of Linear Dynamic  
Systems with Variable Parameters

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assumed, that these equations have a real physical meaning, that is to say, that the system with a pulse-transmission-function may be represented by  $n$  linear dynamic systems of first order in parallel connection, which proves to be very convenient from the point of view of the application of linear analogous computers. The method proposed here may be employed entirely in the same way in the case of systems with constant parameters. There are 4 references, 2 of which are Slavic.

SUBMITTED: October 27, 1955

AVAILABLE: Library of Congress

1. Servomechanisms-Synthesis
2. Differential equations-Applications

Card 2/2

BAIKOV, I. M.

9-2

103-2-9/9

AUTHOR: Rusevich, I. M.

TITLE: Conference on Automatic Control and Computation Engineering  
(Soveshchaniye po avtomaticheskomu upravleniyu i vychislitel'noy tekhnike)

PERIODICAL: Avtomatika i Telemekhanika, 1958, Vol. 19, Nr 2, pp. 191-194  
(USSR)

ABSTRACT: From March 5 - 8, 1957 the conference on automation and computation engineering organized by the All Union Scientific Engineering and Technical Society for Apparatus Building took place. 900 delegates from the Institute of the AN USSR as well as of the AN of the Unions' Republics, universities, research institutes, designing offices and laboratories of the various ministries and authorities took part in it. 40 lectures were held. The opening speech was delivered by M. Ye. Rakovskiy. The president of the organization committee of this conference V. V. Solodovnikov (Central Scientific Research Institute for Complex Automation - TsNIIKA) announced the tasks as well as the program of the conference. In the

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Conference on Automatic Control and Computation Engineering

second part of his speech he defined the subject as well as the characteristics of the content of technical cybernetics. A. A. Lypunov indicated the rôle and the importance of cybernetics as scientific basis of a complex automation of production. The following lectures were held on the theory and the foundations of construction of control computers: V. V. Kazakevich spoke on "Principles and circuits of optimum operation control methods". In a common lecture V. V. Solodovnikov, A. M. Batkov, A. A. Bredis and P. S. Matveyev (TsNIKA) dealt with the "Present Stage of the Theory of Optimum Dynamic Systems Subjected to Arbitrary Effects". L. T. Kuzin showed the use of the Z-transformation apparatus for the analysis and synthesis of the automation systems with numerical computation devices. "A. M. Batkov spoke on" The new way of using modelling electronic plants (electronic simulation) for the determination of the basic and statistical characteristics - the correlation function and the dispersion of a non-standardized arbitrary magnitude at the output of the automation system according to given characteristics of arbitrary effects at the input. Yu. A. Shreyder spoke on the principles of construction of so-called "self-informing" control apparatus, the

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Conference on Automatic Control and Computation Engineering

basic property of which is the capability to find the optimum way of control by means of accumulated experiences in operation. - V. I. Dikushin, Member of the Academy, (Scientific Research and Experimental Institute for Machining Tools) ~~spoke on the~~ "construction of systems for a preset control of machine tools." The lecture of E. Z. Lyubimskiy, S. S. Kamynin and V. S. Shtarkman (Institute for Mathematics imeni Steklov AN USSR) ~~dealt with~~ "Optimum information coding in automation and multistep automation schemes for production processes." M. P. Shura-Bura (Institute for Mathematics imeni Steklov AN USSR) ~~spoke on~~ the possibility of using the means of computation engineering for a transformation of any informations including those of automatic translation from one language into the other. N. V. Korol'kov, Ye. I. Mamonov and Yu. I. Sharapov ~~spoke on~~ the achievements in the field of quick, reliable, economical and small computer elements. On the utilization of ~~these elements~~ <sup>these computers</sup> in the circuits of computers spoke V. A. Zimin and L. I. Gutenmakher. - V. I. Ryzhov, N. V. Trubnikov and A. K. Zavolokin, as well as Ye. M. Baskakov ~~spoke on~~ the input and output devices of computers. Yu. S.

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Conference on Automatic Control and Computation Engineering

Val'denberg held a lecture on "A specialized mathematical machine of continuous operation for the solution of integral equations of Fredholm and Volterra's first and second type, as they often occur in control problems." - Yu. V. Novikov (IAT AN USSR) ~~spoke on~~ the new computer created in the IAT AN USSR (magnetic correlograph) for the automatic computation of correlation functions." - I. M. Vitenberg ~~spoke on~~ the modelling electronic apparatus for the automatic finding of a solution for a problem with a given system of equations." - F. V. Mayorov and Ye. P. Zhiakov ~~spoke on~~ the mathematical foundations of numerical differential analyzers (TsDa) as well as on their use as control apparatus. - L. I. Gutenmakher ~~spoke on~~ "the prospects of using information- and statistical machines of new design for control systems. "

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103-2-9/9

Conference on Automatic Control and Computation Engineering

The conference took place in Moscow from March 5 - 8, 1957. A number of lectures dealt with examples from the field of application of computation apparatus for the control of real production objects. Yu. Ye. Yefroymovich (Central Laboratory for Automation), V. Yu. Kaganov (Central Laboratory for Automation, A. B. Chelyustkin (IAT AS USSR) and P. N. Kopy-Gora spoke on "the use of computation apparatus for the control of basic objects in metallurgy (furnaces, arc furnaces, rolling mills)". D. T. Vasil'yev and L. E. Fitser spoke on "computators for the determination of the most suitable sequence of cuts in metalworking industry." Up to 20 different quantities determining the sequence of cuts can be introduced into the

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## Conference on Automatic Control and Computation Engineering

machine and when some of these magnitudes are given the demanded optimum parameter can be computed within 2 - 3 minutes. Ya. A. Khetagurov reported on "numerical system for the control of a machine tool." - The conference regards it necessary to organize special groups within the TsNIIKA (Central Scientific Research Institute for Complex Automation), the NII and KB (Scientific Research Institute and Construction Bureau), at the ministries as well as within the organization of the AS USSR. These groups should be concerned with the problems of technical cybernetics. It was decided to have organized an All-Union Conference for Cybernetics by the All-Union Scientific Engineering and Technical Society for Apparatus Building in collaboration with the AS USSR.

AVAILABLE: Library of Congress

1. Automation-Conference

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28(1,2)

PHASE I BOOK EXPLOITATION

SOV/2656

**Avtomaticheskoye upravleniye i vychislitel'naya tekhnika, vyp. 2** (Automatic Control and Computation Technique, Nr 2) Moscow, Mashgiz, 1959. 316 p. Errata slip inserted. 8,000 copies printed.

**Eds.:** V.A. Bodner, Doctor of Technical Sciences, Professor, and A.M. Batkov, Candidate of Technical Sciences; **Ed. of Publishing House:** G.F. Polyakov; **Tech. Ed.:** B.I. Model'; **Editorial Board:** V.V. Solodovnikov, Doctor of Technical Sciences, Professor (Chairman); N.M. Bogolyubov, Academician; A. Yu. Ishlinskiy, Corresponding Member, Ukrainian SSR Academy of Sciences; V.V. Kazakevich, Doctor of Technical Sciences, Professor (Deputy Chairman); A.A. Iyapunov, Doctor of Physical and Mathematical Sciences, Professor; B.N. Petrov, Corresponding Member, USSR Academy of Sciences; Ye.P. Popov, Doctor of Technical Sciences, Professor; G.S. Pospelov, Doctor of Technical Sciences, Professor; B.A. Ryabov, Doctor of Technical Sciences, Professor; V.B. Ushakov, Doctor of Technical Sciences; B.V. Anisimov, Candidate of Technical Sciences; V.V. Petrov, Candidate of Technical Sciences; V.N. Plotnikov, Candidate of Technical Sciences, Docent (Scientific Secretary); **Managing Ed. for Literature on Machine Building and Instrument Construction (Mashgiz):** N.V. Pokrovskiy, Engineer.

Card 1/5

Automatic Control and (Cont.)

80V/2656

**PURPOSE:** This book is intended for scientific workers and industrial engineers who are interested in problems of the design and testing of automatic control systems.

**COVERAGE:** This book is a collection of articles on automatic control. The first two articles pertain to the theory of sampled-data systems. The article by V.P. Perov is devoted to the problem of the synthesis of linear sampled-data systems. As a criterion for the determination of the optimum condition the minimum of the sum of the mean value of the square random error and square dynamic error during a time-restricted transient process is selected. The work of F.M. Kilin explains the methods of analyzing transient and stable processes in sampled-data systems with jump-variable parameters, and also the problems of the statistical dynamics of such systems. In the work by Ye.P. Popov a study is made of the problem on diminishing the effect of a number of nonlinearities (relay type, dry friction, backlash, etc.) on the operation of an automatic control system by means of vibrational smoothing of the nonlinear characteristics; in addition an analysis is made of the methods of introducing vibrations by means of a self-oscillating regime. The article by A.D. Maksimov is devoted to the same problem. However, here a study is made of vibrational smoothing by means of external periodic action on the

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